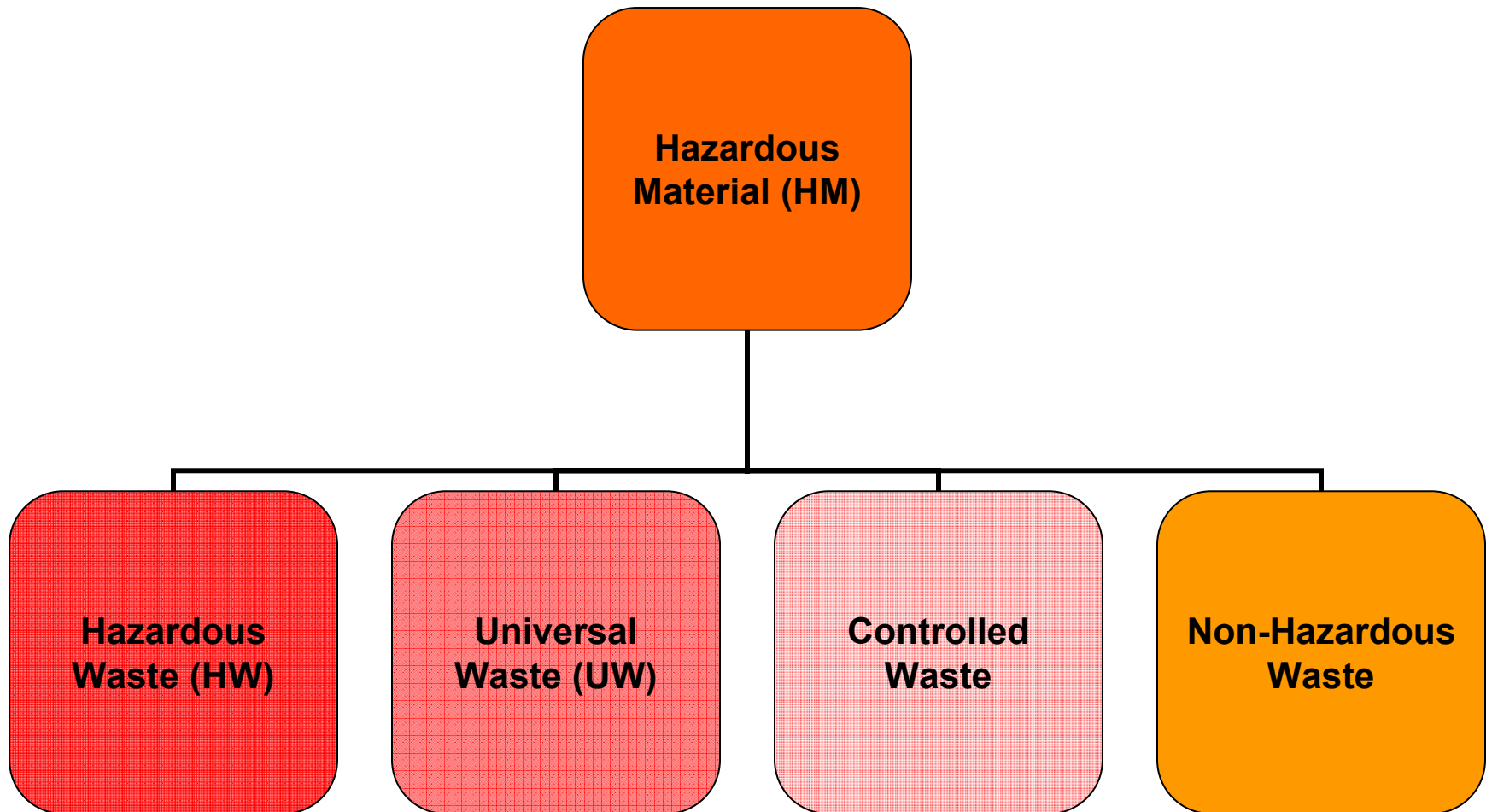


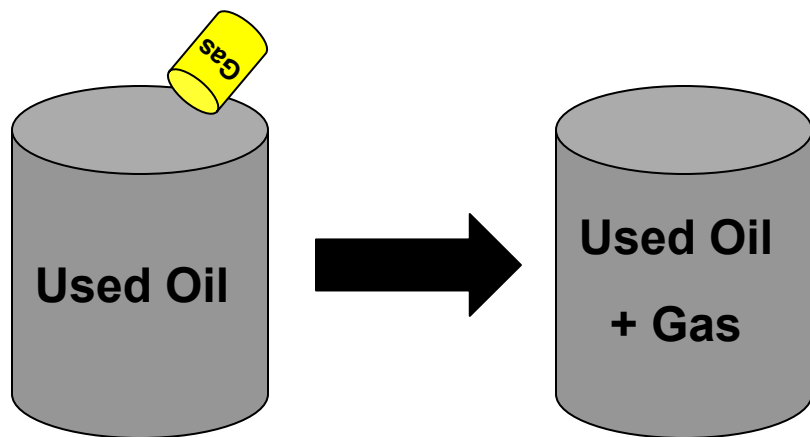
Hazardous Material and Waste Management Plan

Ms. Barbara Williams
Environmental Management Branch

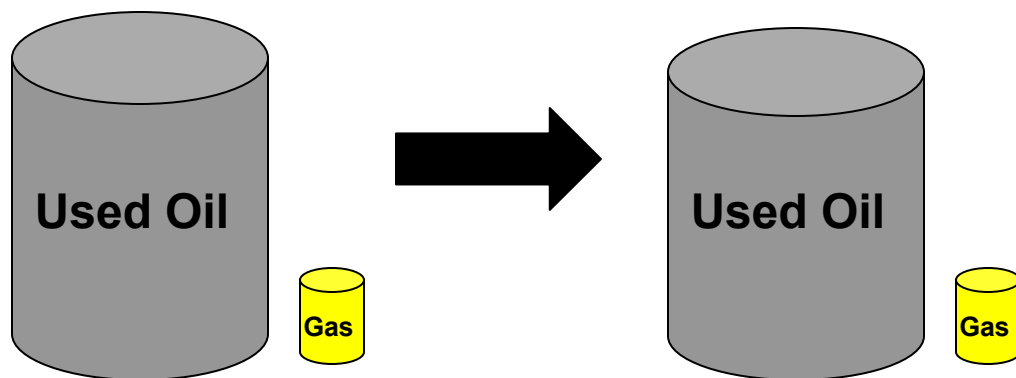
Hazardous Substances



Hazardous Waste Minimization



- If you add 1 gal of unusable gasoline to a drum containing 53 gal of used oil, you will have 54 gal of HW.



- If you keep the gasoline separate from the used oil, you will have 1 gal of HW and 53 gal of controlled waste.

Improper Storage



Improper Storage, continued



Question

- Scenario: You need $\frac{3}{4}$ gal of paint. The locker contains two 1-gal cans of the paint you need. Can #1 contains $\frac{3}{4}$ gal. The can is in good condition, but the lid was not sealed tight and a thin film has started to develop. Can #2 is full, sealed tight, and the paint is in good condition, but the can is extremely rusty.
- What do you do?

Hazardous Waste Characteristics

Ignitable	A waste that has a flashpoint $< 140^{\circ}$ F	Paint thinner, gasoline
Corrosive	A waste that has a $\text{pH} \leq 2$ or ≥ 12.5	Sulfuric acid, bleach
Toxic	A waste that can cause illness of death when taken into the body.	Lead based paint, gas mask filters
Reactive	A waste that may react with water to form an explosive mixture or generate toxic vapors.	Inactivated MRE Heaters

SAA Requirements

- Containers must be labeled.
- Containers must be closed except when adding or removing waste.
- Waste must not exceed 55 gallons for more than 72 hours.
- The Accumulation Start Date must be marked on the label after reaching 55 gallons.
- SAA must have a sign.
- SAA must be inspected.
- SAA must be located near the point of generation.

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

GENERATOR INFORMATION:
NAME _____
ADDRESS _____ PHONE _____
CITY _____ STATE _____ ZIP _____
EPA /MANIFEST
ID NO./ DOCUMENT NO. _____ / _____
ACCUMULATION START DATE _____ EPA
WASTE NO. _____

[_____]
[_____]
[_____]
D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

STYLE WM6

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UW Management - Lamps

- Used lamps must be carefully packed.
- The accumulation start date, the phrase “Used Lamps”, and the quantity must be marked on the box.
- Boxes must be sealed and protected from the weather and potential breakage.



Spill Response Actions

- Secure & evacuate the area.
- Call 911 (Fire Department)
- Protect yourself with the appropriate PPE.
- Stop the flow.
- Contain the spill.
- Prevent the spill from reaching a storm drain or body of water.
- **A reportable spill is generally defined as anything over 5 gallons.**



Spill Response Violation



Common Violations

- Poor housekeeping
- Open & unlabeled containers
- Improper disposal of rags and paper towels
- Stockpiling HM
- Unattended stains from POL spills
- Storage of incompatible materials/waste
- Improper management of UW (lamps)
- Spill Plan & MSDSs not available for review
- Inadequate training records